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1 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (558.34 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 541, Downloads (Overall): 10913, Citation Count: 34

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

2 Communications of the ACM: Volume 53 issue 3

March 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 403, Downloads (12 Months): 403, Downloads (Overall): 403, Citation Count: 0

3 Offering open hypermedia services to the WWW: a step-by-step approach for developers

Nikos Karousos, Ippokratis Pandis, Siegfried Reich, Manolis Tzagarakis

May 2003 **WWW '03:** Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (86.12 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Downloads (Overall): 736, Citation Count: 8

Hypermedia systems and more specifically open hypermedia systems (OHS) provide a rich set of implementations of different hypertext flavors such as navigational hypertext, spatial hypertext or taxonomic hypertext. Additionally, these systems offer component-based ...

Keywords: babylon system, hypermedia services, open hypermedia systems, web services

4 Communications of the ACM: Volume 51 issue 10

October 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.16 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 138, Downloads (12 Months): 138, Downloads (Overall): 3351, Citation Count: 0

5 Vlogging: A survey of videoblogging technology on the web

Wen Gao, Yonghong Tian, Tiejun Huang, Qiang Yang

June 2010 **Computing Surveys (CSUR)** , Volume 42 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (5.71 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 402, Downloads (12 Months): 402, Downloads (Overall): 402, Citation Count: 0

In recent years, blogging has become an exploding passion among Internet communities. By combining the grassroots blogging with the richness of expression available in video, videoblogs (vlogs for short) will be a powerful new media adjunct to our existing ...

Keywords: Survey, multimedia computing, vlog mining, vlogging, vlogs

6 Benchmarking XML processors for applications in grid web services

Michael R. Head, Madhusudhan Govindaraju, Robert van Engelen, Wei Zhang

November 2006 **SC '06:** Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Html (2.32 KB), Pdf (199.06 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 88, Downloads (Overall): 711, Citation Count: 5

Web services based specifications have emerged as the underlying architecture for core grid services and standards, such as WSRF. XML is inextricably inter-twined with Web services based specifications, and as a result the design and implementation of ...

Keywords: XML, benchmarking, multi-core

7 Extending TPC-W to allow for fine grained workload specification

Christian Kurz, Carlos Guerrero, Günter Haring

July 2005 **WOSP '05:** Proceedings of the 5th international workshop on Software and performance

Publisher: ACM Request Permissions

Full text available: Pdf (160.82 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 31, Downloads (Overall): 242, Citation Count: 1

This paper presents a method to characterize workload from a web server logfile from a user perspective. The data obtained in this process is used to create workload for the TPC-W benchmark.

Keywords: benchmark, capacity planning, user modeling, web performance

8 Communications of the ACM: Volume 52 Issue 7

July 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.61 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 200, Downloads (12 Months): 200, Downloads (Overall): 200, Citation Count: 0

9 Communications of the ACM: Volume 53 Issue 1

January 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.09 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 383, Downloads (12 Months): 383, Downloads (Overall): 383, Citation Count: 0

10 Dynamic multi-process information flow tracking for web application security

Susanta Nanda, Lap-Chung Lam, Tzi-cker Chiueh

November 2007 **MC '07:** Proceedings of the 2007 ACM/IFIP/USENIX international conference on Middleware companion

Publisher: ACM

Full text available: Pdf (490.78 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 133, Downloads (Overall): 381, Citation Count: 0

Although there is a large body of research on detection and prevention of such memory corruption attacks as buffer overflow, integer overflow, and format string attacks, the web application security problem receives relatively less attention from the ...

Keywords: SQL injection, cross-site scripting, dynamic checking compiler, information flow tracking, taint analysis, web application security

11 Evaluating grid portal security

David Del Vecchio, Victor Hazlewood, Marty Humphrey

November 2006 **SC '06:** Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Html (2.21 KB), Pdf (156.69 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 78, Downloads (Overall): 648, Citation Count: 1

Grid portals are an increasingly popular mechanism for creating customizable, Web-based interfaces to Grid services and resources. Due to the powerful, general-purpose nature of Grid technology, the security of any portal or entry point to such resources ...

12 Communications of the ACM: Volume 52 Issue 6

June 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (6.34 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 240, Downloads (12 Months): 240, Downloads (Overall): 1515, Citation Count: 0

13 MobiDesk: mobile virtual desktop computing

Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **MobiCom '04:** Proceedings of the 10th annual international conference on Mobile computing and networking

Publisher: ACM Request Permissions

Full text available: Pdf (580.39 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 172, Downloads (Overall): 1413, Citation Count: 11

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

14 xlinkit: a consistency checking and smart link generation service

Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein

May 2002 **Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (463.26 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Downloads (Overall): 840, Citation Count: 56

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as part of a ...

Keywords: Consistency management, XML, automatic link generation, constraint checking

15 The JBoss extensible server

Marc Fleury, Francisco Reverbel

June 2003 **Middleware '03:** Proceedings of the ACM/IFIP/USENIX 2003 International Conference on Middleware

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (255.50 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 51, Downloads (Overall): 62, Citation Count: 7

JBoss is an extensible, reflective, and dynamically reconfigurable Java application server. It includes a set of components that implement the J2EE specification, but its scope goes well beyond J2EE. JBoss is open-ended middleware, in the sense that ...

16 Towards increasing web application productivity

Jia Zhang, Jen-Yao Chung, Carl K. Chang

March 2004 **SAC '04:** Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Request Permissions

Full text available: Pdf (157.09 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 38, Downloads (Overall): 944, Citation Count: 3

In this paper we present and discuss a template/meta-data based partial code generation system supporting web application development. Seamlessly incorporating the recent top-notch technologies, the framework maximally exploits the capabilities of the ...

Keywords: Web application development, automatic program generation and regeneration, framework, software architecture

17 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **Transactions on Computer Systems (TOCS)** , Volume 22 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (1.82 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 188, Downloads (Overall): 3047, Citation Count: 20

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

18 Interoperable Web services for computational portals

Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy

November 2002 **Supercomputing '02:** Proceedings of the 2002 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society Press

Full text available: Pdf (278.00 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 65, Downloads (Overall): 468, Citation Count: 17

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and ...

19 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **WWW '01:** Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (611.20 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Downloads (Overall): 1459, Citation Count: 7

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

20 From sockets and RMI to web services

Mark A. Holliday, J. Traynham Houston, E. Matthew Jones

February 2008 **SIGCSE '08:** Proceedings of the 39th SIGCSE technical symposium on Computer science education

Publisher: ACM Request Permissions

Full text available: Pdf (260.57 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 117, Downloads (Overall): 297, Citation Count: 0

Traditional coverage of network programming techniques in a computer networking course addresses sockets, remote procedure call, and object-oriented remote procedure call. We propose two innovations to that coverage. The first is to emphasize the historical ...

Keywords: computer science education, java remote method invocation, net-centric computing, sockets, web services

Also published in:

February 2008 **SIGCSE Bulletin** Volume 40 Issue 1

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21 Splitter: a proxy-based approach for post-migration testing of web applications

Xiaoning Ding, Hai Huang, Yaoping Ruan, Anees Shaikh, Brian Peterson, Xiaodong Zhang

April 2010 **EuroSys '10:** Proceedings of the 5th European conference on Computer systems

Publisher: ACM Request Permissions

Full text available: Pdf (1.28 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 60, Downloads (Overall): 60, Citation Count: 0

The benefits of virtualized IT environments, such as compute clouds, have drawn interested enterprises to migrate their applications onto new platforms to gain the advantages of reduced hardware and energy costs, increased flexibility and deployment ...

Keywords: cloud computing, http, migration, testing, web application

22 Modular Java web applications

Simon Richard Kaegi, Dwight Deugo

March 2008 **SAC '08:** Proceedings of the 2008 ACM symposium on Applied computing

Publisher: ACM Request Permissions

Full text available: Pdf (72.58 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 149, Downloads (Overall): 335, Citation Count: 1

As Java EE applications increase in size and complexity the constraints imposed by the existing component model restrict their utility. In this paper, we describe a solution to the problem related to building modular and evolvable server-side applications ...

Keywords: OSGi, eclipse, java EE, server-side, web applications

23 Developing and managing software components in an ontology-based application server

Daniel Oberle, Andreas Eberhart, Steffen Staab, Raphael Volz

October **Middleware '04:** Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware 2004

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (317.85 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 40, Downloads (Overall): 725, Citation Count: 7

Application servers provide many functionalities commonly needed in the development of a complex distributed application. So far, the functionalities have mostly been developed and managed with the help of administration tools and corresponding configuration ...

24 Hypertext navigation of ACL2 proofs with XMLEye

Antonio García-Domínguez, Francisco Palomo-Lozano, Inmaculada Medina-Bulo

May 2009 **ACL2 '09:** Proceedings of the Eighth International Workshop on the ACL2 Theorem Prover and its Applications

Publisher: ACM Request Permissions

Full text available: Pdf (305.51 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 7, Downloads (Overall): 7, Citation Count: 0

Difficult problems often require complex solutions, and the proofs checked by ACL2 are no exception. There are steep learning curves involved both in producing the proof script and analyzing its long and complex results. Existing tools, such as DrACuLa ...

Keywords: ACL2, XHTML, XML, XSLT, formal methods, proof presentation

25 Proceedings of the 2010 ACM Symposium on Applied Computing

Sung Y. Shin, Sascha Ossowski, Michael Schumacher, Mathew J. Palakal, Chih-Cheng Hung

March 2010 **SAC '10:** Proceedings of the 2010 ACM Symposium on Applied Computing

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Welcome to the 25th International Symposium on Applied Computing (SAC 2010). For the past 24 years, SAC has become a major international venue for computing researchers and applied practitioners to convene and share ideas on recent developments in a ...

26 Communications of the ACM: Volume 51 Issue 4

April 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (4.24 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 114, Downloads (12 Months): 114, Downloads (Overall): 3643, Citation Count: 0

27 The five-minute rule 20 years later (and how flash memory changes the rules)

Goetz Graefe

July 2009 **Communications of the ACM** , Volume 52 Issue 7

Publisher: ACM Request Permissions

Full text available: Digital Edition , Html (67.49 KB), Pdf (4.89 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 427, Downloads (12 Months): 12882, Downloads (Overall): 28541, Citation Count: 0

Revisiting Gray and Putzolu's famous rule in the age of Flash.

28 "Program, enhance thyself!": demand-driven pattern-oriented program enhancement

Eli Tilevich, Godmar Back

March 2008 **AOSD '08:** Proceedings of the 7th international conference on Aspect-oriented software development

Publisher: ACM Request Permissions

Full text available: Pdf (485.84 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 67, Downloads (Overall): 276, Citation Count: 1

Program enhancement refers to adding new functionality to an existing program. We argue that repetitive program enhancement tasks can be expressed as patterns, and that the application of such enhancement patterns can be automated. This paper presents ...

Keywords: aspect-oriented programming, meta-programming, patterns, program enhancement, rules engines

29 A data model and architecture for long-term preservation

Greg Janée, Justin Mathena, James Frew

June 2008 **JCDL '08:** Proceedings of the 8th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Request Permissions

Full text available: Pdf (1.63 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 140, Downloads (Overall): 397, Citation Count: 0

The National Geospatial Digital Archive, one of eight initial projects funded under the Library of Congress's NDIIPP program, has been researching how geospatial data can be preserved on a national scale and be made available to future generations. In ...

Keywords: curation, long-term preservation

30 A theory of aspects as latent topics

Pierre F. Baldi, Cristina V. Lopes, Erik J. Linstead, Sushil K. Bajracharya

October 2008 **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications

Publisher: ACM Request Permissions

Full text available: Pdf (2.60 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 197, Downloads (Overall): 460, Citation Count: 3

After more than 10 years, Aspect-Oriented Programming (AOP) is still a controversial idea. While the concept of aspects appeals to everyone's intuitions, concrete AOP solutions often fail to convince researchers and practitioners alike. This discrepancy ...

Keywords: aspect-oriented programming, scattering, tangling, topic models

Also published in:

October 2008 **SIGPLAN Notices** Volume 43 Issue 10

31 Proceeding of the 17th ACM conference on Information and knowledge management

James G. Shanahan, Sihem Amer-Yahia, Ioana Manolescu, Yi Zhang, David A. Evans, Alek Kolcz, Key-Sun Choi, Abdur Chowdury

October 2008 **CIKM '08:** Proceeding of the 17th ACM conference on Information and knowledge management

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *17th ACM Conference on Information and Knowledge Management -- CIKM'08*. Since 1992, the ACM Conference on Information and Knowledge Management (CIKM) has been successfully bringing together leading ...

32 Naming as a fundamental concept of open hypermedia systems

Manolis Tzagarakis, Nikos Karousos, Dimitris Christodoulakis, Siegfried Reich

May 2000 **HYPERTEXT '00:** Proceedings of the eleventh ACM on Hypertext and hypermedia

Publisher: ACM Request Permissions

Full text available: Pdf (125.38 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 13, Downloads (Overall): 335, Citation Count: 6

Keywords: component-based open hypermedia system (CB-OHS), naming system, reference architecture

33 Generative approaches for application tailoring of mobile devices

Victoria Davis, Jeff Gray, Joel Jones

March 2005 **ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - Volume 2** , Volume 2

Publisher: ACM Request Permissions

Full text available: Pdf (526.52 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 51, Downloads (Overall): 295, Citation Count: 0

The popularity of mobile devices has propelled the development of many useful location-aware applications. However, the heterogeneity of mobile devices necessitates that the software be customized and tailored for each device. The research described ...

34 Live editing of hypermedia documents

Romualdo Monteiro de Resende Costa, Márcio Ferreira Moreno, Rogério Ferreira Rodrigues, Luiz Fernando Gomes Soares

October 2006 **DocEng '06:** Proceedings of the 2006 ACM symposium on Document engineering

Publisher: ACM Request Permissions

Full text available: Pdf (236.34 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 46, Downloads (Overall): 340, Citation Count: 18

In some hypermedia system applications, like interactive digital TV applications, authoring and presentation of documents may have to be done concomitantly. This is the case of live programs, where not only some contents are not known a priori, but also ...

Keywords: NCL, SBTVD, declarative middleware, ginga, interactive digital TV

35 Broadcast technologies for disseminating cultural heritage

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parworth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illigner

November 2001 **VAST '01:** Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage

Publisher: ACM

Full text available: Pdf (1.03 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 2, Downloads (Overall): 502, Citation Count: 1

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and ...

36 RepoMan: a component repository manager for enterprise distributed real-time and embedded systems

Stoyan Paunov, Douglas C. Schmidt

March 2006 **ACM-SE 44:** Proceedings of the 44th annual Southeast regional conference

Publisher: ACM Request Permissions

Full text available: Pdf (331.77 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 11, Downloads (Overall): 105, Citation Count: 0

Repository managers keep track of software versions, implementations, and configuration metadata in distributed computing environment to enable the (re)deployment and (re)configuration of applications and facilitate online component upgrades. This paper ...

Keywords: component architectures, distributed systems

37 XMem: type-safe, transparent, shared memory for cross-runtime communication and coordination

Michal Wegiel, Chandra Krintz

June 2008 **PLDI '08:** Proceedings of the 2008 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM Request Permissions

Full text available: Pdf (254.76 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 87, Downloads (Overall): 305, Citation Count: 0

Developers commonly build contemporary enterprise applications using type-safe, component-based platforms, such as J2EE, and architect them to comprise multiple tiers, such as a web container, application server, and database engine. Administrators increasingly ...

Keywords: class loading, garbage collection, interprocess communication, managed runtimes, parallel, shared memory, synchronization, transparent, type-safe

Also published in:

May 2008 **SIGPLAN Notices** Volume 43 Issue 6

38 Evil twins: two models for TCB reduction in HPC clusters

Jacob Gorm Hansen, Eske Christiansen, Eric Jul

July 2007 **SIGOPS Operating Systems Review** , Volume 41 Issue 4

Publisher: ACM

Full text available: Pdf (1.13 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 43, Downloads (Overall): 219, Citation Count: 0

Traditional high performance computing systems require extensive management and suffer from security and configuration problems. This paper presents two generations of a cluster-management system that aims at making clusters as secure and self-managing ...

39 CINDI: a digital library for academics

Rui Chen, Alirio Perez, Krishna Dutta, Bipin C. Desai

May 2009 **C3S2E '09:** Proceedings of the 2nd Canadian Conference on Computer Science and Software Engineering

Publisher: ACM Request Permissions

Full text available: Pdf (634.34 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 55, Downloads (Overall): 59, Citation Count: 0

In this paper, we present Concordia INdexing and DIscovery (CINDI) system, a digital library system for academics. The CINDI system distinguishes itself from other existing digital libraries by its extended functionalities, which provide the academic ...

Keywords: digital library, information retrieval, semantic header, virtual question answering

40 Cross-modal interaction using XWeb

Dan R. Olsen, Jr., Sean Jefferies, Travis Nielsen, William Moyes, Paul Fredrickson

November 2000 **UIST '00:** Proceedings of the 13th annual ACM symposium on User interface software and technology

Publisher: ACM Request Permissions

Full text available: Pdf (200.30 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 45, Downloads (Overall): 748, Citation Count: 40

Keywords: cross-modal interaction, network interaction, screen layout, speech interfaces

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41 Proceeding of the 16th ACM international conference on Multimedia

Abdulmotaleb El Saddik, Son Vuong, Carsten Griwodz, Alberto Del Bimbo, K. Selcuk Candan, Alejandro Jaimes

October 2008 **MM '08:** Proceeding of the 16th ACM international conference on Multimedia

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Welcome to the sixteenth ACM International Conference on Multimedia (ACM MM 2008), held October 27-31, 2008 at the Pan Pacific Hotel in Vancouver, BC, Canada. Vancouver, situated on Canada's east coast, enjoys a milder climate than much of Canada. As ...

42 PMML and UIMA based frameworks for deploying analytic applications and services

David Ferrucci, Robert L. Grossman, Anthony Levas

August 2006 **DMSSP '06:** Proceedings of the 4th international workshop on Data mining standards, services and platforms

Publisher: ACM Request Permissions

Full text available: Pdf (339.74 KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 40, Downloads (Overall): 153, Citation Count: 0

It is convenient to divide data into structured data, semi-structured data and unstructured data. By structured data, we mean data that is organized into fields or attributes. Examples include database records. Semi-structured data has attributes but ...

43 Building Systems to Be Shared, Securely

Poul-Henning Kamp, Robert Watson

July 2004 **Queue** , Volume 2 Issue 5

Publisher: ACM Request Permissions

Full text available: Html (41.37 KB), Pdf (575.43 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 203, Downloads (12 Months): 1546, Downloads (Overall): 2466, Citation Count: 1

The history of computing has been characterized by continuous transformation resulting from the dramatic increases in performance and drops in price described by Moore's law. Computing "power" has migrated from centralized mainframes/servers to distributed ...

44 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **Computing Surveys (CSUR)** , Volume 36 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (294.13 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 657, Downloads (Overall): 9085, Citation Count: 37

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

45 A context-based mediation approach to compose semantic Web services

Michael Mrissa, Chirine Ghedira, Djamal Benslimane, Zakaria Maamar, Florian Rosenberg, Schahram Dustdar

November 2007 **Transactions on Internet Technology (TOIT)** , Volume 8 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (450.35 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 155, Downloads (Overall): 1049, Citation Count: 0

Web services composition is a keystone in the development of interoperable systems. However, despite the widespread adoption of Web services, several obstacles still hinder their smooth automatic semantic reconciliation when being composed. Consistent ...

Keywords: Web services, composition, context, mediation, semantics

46 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh, Charles W. Bachman

January 2006 Oral History interviews

Publisher: ACM

Full text available: Pdf (974.87 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 470, Downloads (Overall): 1861, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during ...

47 Communications of the ACM: Volume 53 Issue 6

June 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 997, Downloads (12 Months): 997, Downloads (Overall): 997, Citation Count: 0

48 Queue: Volume 6 Issue 4

July 2008 Queue

Publisher: ACM

Full text available: Digital Edition , Pdf (6.13 MB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 23, Downloads (Overall): 516, Citation Count: 0

Flash is growing from mere curiosity to a new tier in the storage hierarchy.

49 Exposing the hidden web for chemical digital libraries

Sascha Tönnies, Benjamin Köhncke, Oliver Koepler, Wolf-Tilo Balke

June 2010 **JCDL '10:** Proceedings of the 10th annual joint conference on Digital libraries

Publisher: ACM Request Permissions

Full text available: Pdf (869.56 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 13, Downloads (Overall): 13, Citation Count: 0

In recent years, the vast amount of digitally available content has lead to the creation of many topic-centered digital libraries. Also in the domain of chemistry more and more digital collections are available, but the complex query formulation still ...

Keywords: chemical digital collections, digital libraries, hidden web, information extraction, information retrieval, web search

50 Implementing filesystems by tree-aware DBMSs

Alexander Holupirek, Marc H. Scholl

August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 2

Publisher: VLDB Endowment

Full text available: Pdf (698.31 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 30, Downloads (Overall): 81, Citation Count: 0

With the rise of XML, the database community has been challenged by semi-structured data processing. Since the data type behind XML is the tree, state-of-the-art RDBMSs have learned to deal with such data (*e. g.*, [18, 5, 6, 16]). This paper introduces ...

51 Hot service deployment in an ad hoc grid environment

Thomas Friese, Matthew Smith, Bernd Freisleben

November 2004 **ICSOC '04:** Proceedings of the 2nd international conference on Service oriented computing

Publisher: ACM

Full text available: Pdf (1.37 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 34, Downloads (Overall): 1268, Citation Count: 5

In this paper, we present a solution to the probl of dynamically deploying grid service factories onto computing nodes running an implentation of the Open Grid Services Infrastructure (OGSI). By providing a non-intrusive Hot Deployment Service (HDS), ...

Keywords: ad hoc grid, grid computing, service orientation

52 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **Transactions on Information Systems (TOIS)** , Volume 22 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (316.85 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 415, Downloads (Overall): 4072, Citation Count: 27

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications., definitions, foundations, taxonomy

53 Software Deployment, Past, Present and Future

Alan Dearle

May 2007 **FOSE '07:** 2007 Future of Software Engineering

Publisher: IEEE Computer Society

Full text available: Pdf (390.24 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 251, Downloads (Overall): 1375, Citation Count: 5

This paper examines the dimensions influencing the past and present and speculates on the future of software deployment. Software deployment is a postproduction activity that is performed for or by the customer of a piece of software. Today's software ...

54 Middleware in ubiquitous computing system with MedRec architecture

Mangal Sain, HoonJae Lee, Wan-Young Chung

November 2009 **ICIS '09:** Proceedings of the 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human

Publisher: ACM Request Permissions

Full text available: Pdf (801.83 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 87, Downloads (Overall): 87, Citation Count: 1

With the advent development in Ubiquitous Healthcare system it's becoming one of the emerging areas of research. Due to mobile, dynamic, unpredictable and heterogeneous environment of ubiquitous computing systems it's really hard to develop system software ...

Keywords: J2EE, MUHIS, MedRec, XML, context aware

55 Implementing sorting in database systems

Goetz Graefe

September 2006 **Computing Surveys (CSUR)** , Volume 38 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (518.63 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 392, Downloads (Overall): 4073, Citation Count: 9

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory resource allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteration

56 The semantics of MPEG-21 digital items revisited

Christian Timmerer, Maria Teresa Andrade, Pedro Carvalho, Davide Rogai, Giovanni Cordara

October 2008 **MS '08:** Proceeding of the 2nd ACM workshop on Multimedia semantics

Publisher: ACM Request Permissions

Full text available: Pdf (180.22 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 45, Downloads (Overall): 91, Citation Count: 0

The MPEG-21 standard forms a comprehensive multimedia framework covering the entire multimedia distribution chain. In particular, it provides a flexible approach to represent, process, and transact complex multimedia objects which are referred to as ...

Keywords: digital items, evaluation, metadata, mpeg-21, semantics

57 RoadMapAssembler: a new pattern-based J2EE development tool

Jun Chen, Steve MacDonald

October 2005 **CASCON '05:** Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Pdf (168.81 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 14, Downloads (Overall): 332, Citation Count: 1

The quality of a J2EE web application depends on both the correctness of the code as well as the efficiency and flexibility of its architecture. Unfortunately, the design and development process is complex and includes tedious coding details, making ...

Keywords: deployment information, design patterns, development tool, frameworks, java 2 Enterprise Edition (Version 2.1), name space

58 MOVE: component groupware foundations for collaborative virtual environments

Pedro García, Oriol Montalà, Carles Pairot, Robert Rallo, Antonio Gómez Skarmeta

September 2002 **CVE '02:** Proceedings of the 4th international conference on Collaborative virtual environments

Publisher: ACM Request Permissions

Full text available: Pdf (607.34 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 48, Downloads (Overall): 641, Citation Count: 7

The design of a Virtual Environment (VE) is a distributed problem of multi-user access to shared resources. Such problem requires careful design decisions in order to provide a seamless system infrastructure capable of supporting flexible interactions ...

Keywords: component groupware, distributed systems, frameworks, virtual environments

59 Multimedia ontologies

Lambrini Seremeti, Achilles Kameas

August 2007 **MobiMedia '07:** Proceedings of the 3rd international conference on Mobile multimedia communications

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available: Pdf (87.06 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 170, Downloads (Overall): 405, Citation Count: 0

The development and maintenance of large multimedia databases has attracted much attention nowadays from companies and organizations that held multimedia content (archives, broadcast companies, radio and TV channels, etc.). the goal is to bypass the ...

Keywords: metadata, multimedia ontology, ontology

60 Design of a medical image database with content-based retrieval capabilities

Juan C. Caicedo, Fabio A. González, Edwin Triana, Eduardo Romero

December 2007 **PSIVT'07:** Proceedings of the 2nd Pacific Rim conference on Advances in image and video technology

Publisher: Springer-Verlag

Full text available: Pdf (440.12 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 11, Downloads (Overall): 11, Citation Count: 0

This paper presents the architecture of an image administration system that supports the medical practice in tasks such as teaching, diagnosis and telemedicine. The proposed system has a multi-tier, web-based architecture and supports content-based retrieval. ...

Keywords: content-based image retrieval, image databases, medical imaging

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61 Component framework infrastructure for virtual environments

Manuel Oliveira, Jon Crowcroft, Mel Slater

September 2000 **CVE '00:** Proceedings of the third international conference on Collaborative virtual environments

Publisher: ACM Request Permissions

Full text available: Pdf (1.14 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 37, Downloads (Overall): 473, Citation Count: 8

Virtual Environments (VE) present a complex problem with interesting non-trivial challenges for system development, in particular when the VE is distributed and shared amongst multiple participants. Most problems are common to any VE system, however ...

Keywords: components, framework, java, virtual environments, virtual reality, vrtp

62 An architecture for information retrieval over semi-collaborating Peer-to-Peer networks

Iraklis A. Klampanos, Joemon M. Jose

March 2004 **SAC '04:** Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Request Permissions

Full text available: Pdf (365.46 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 32, Downloads (Overall): 795, Citation Count: 9

Peer-to-Peer (P2P) networking is aimed at exploiting the potential of widely distributed information pools and its effortless access and retrieval irrespectively of underlying networking protocols, operating systems of devices. However, prohibiting limitations ...

63 Supporting aggregation in fine grained software configuration management

Mark C. Chu-Carroll, James Wright, David Shields

November 2002 **SIGSOFT '02/ FSE-10:** Proceedings of the 10th ACM SIGSOFT symposium on Foundations of software engineering

Publisher: ACM Request Permissions

Full text available: Pdf (207.31 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 31, Downloads (Overall): 425, Citation Count: 9

Fine-grained software configuration management offers substantial benefits for large-scale collaborative software development, enabling a variety of interesting and useful features including complexity management, support for aspect-oriented software ...

Keywords: aggregation, dynamic program organization, fine grained storage

64 Model driven security: From UML models to access control infrastructures

David Basin, Jürgen Doser, Torsten Lodderstedt

January 2006 **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 15 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (968.83 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 342, Downloads (Overall): 2596, Citation Count: 28

We present a new approach to building secure systems. In our approach, which we call Model Driven Security, designers specify system models along with their security requirements and use tools to automatically generate system architectures from the models, ...

Keywords: Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

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March 2010 Communications of the ACM
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Bibliometrics: Downloads (6 Weeks): 403, Downloads (12 Months): 403, Downloads (Overall): 403, Citation Count: 0

2 Communications of the ACM: Volume 53 Issue 6

June 2010 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 997, Downloads (12 Months): 997, Downloads (Overall): 997, Citation Count: 0

3 Communications of the ACM: Volume 51 Issue 10

October 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (7.16 MB) Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 138, Downloads (12 Months): 138, Downloads (Overall): 3351, Citation Count: 0

4 Vlogging: A survey of videoblogging technology on the web

Wen Gao, Yonghong Tian, Tiejun Huang, Qiang Yang
June 2010 **Computing Surveys (CSUR)** , Volume 42 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (5.71 MB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 402, Downloads (12 Months): 402, Downloads (Overall): 402, Citation Count: 0

In recent years, blogging has become an exploding passion among Internet communities. By combining the grassroots blogging with the richness of expression available in video, videoblogs (vlogs for short) will be a powerful new media adjunct to our existing ...
Keywords: Survey, multimedia computing, vlog mining, vlogging, vlogs

5 Communications of the ACM: Volume 52 Issue 7

July 2009 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (7.61 MB) Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 200, Downloads (12 Months): 200, Downloads (Overall): 200, Citation Count: 0

6 Benchmarking XML processors for applications in grid web services

Michael R. Head, Madhusudhan Govindaraju, Robert van Engelen, Wei Zhang

November 2006 **SC '06:** Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Html (2.32 KB), Pdf (199.06 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 88, Downloads (Overall): 711, Citation Count: 5

Web services based specifications have emerged as the underlying architecture for core grid services and standards, such as WSRF. XML is inextricably inter-twined with Web services based specifications, and as a result the design and implementation of ...

Keywords: XML, benchmarking, multi-core

7 A theory of aspects as latent topics

Pierre F. Baldi, Cristina V. Lopes, Erik J. Linstead, Sushil K. Bajracharya

October 2008 **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications

Publisher: ACM Request Permissions

Full text available: Pdf (2.60 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 197, Downloads (Overall): 460, Citation Count: 3

After more than 10 years, Aspect-Oriented Programming (AOP) is still a controversial idea. While the concept of aspects appeals to everyone's intuitions, concrete AOP solutions often fail to convince researchers and practitioners alike. This discrepancy ...

Keywords: aspect-oriented programming, scattering, tangling, topic models

Also published in:

October 2008 **SIGPLAN Notices** Volume 43 Issue 10

8 MobiDesk: mobile virtual desktop computing

Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **MobiCom '04:** Proceedings of the 10th annual international conference on Mobile computing and networking

Publisher: ACM Request Permissions

Full text available: Pdf (580.39 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 172, Downloads (Overall): 1413, Citation Count: 11

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

9 Evaluating grid portal security

David Del Vecchio, Victor Hazlewood, Marty Humphrey

November 2006 **SC '06:** Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Html (2.21 KB), Pdf (156.69 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 78, Downloads (Overall): 648, Citation Count: 1

Grid portals are an increasingly popular mechanism for creating customizable, Web-based interfaces to Grid services and resources. Due to the powerful, general-purpose nature of Grid technology, the security of any portal or entry point to such resources ...

10 Software Deployment, Past, Present and Future

Alan Dearle

May 2007 **FOSE '07:** 2007 Future of Software Engineering

Publisher: IEEE Computer Society

Full text available: Pdf (390.24 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 251, Downloads (Overall): 1375, Citation Count: 5

This paper examines the dimensions influencing the past and present and speculates on the future of software deployment. Software deployment is a postproduction activity that is performed for or by the customer of a piece of software. Today's software ...

11 Splitter: a proxy-based approach for post-migration testing of web applications

Xiaoning Ding, Hai Huang, Yaoping Ruan, Anees Shaikh, Brian Peterson, Xiaodong Zhang

April 2010 **EuroSys '10:** Proceedings of the 5th European conference on Computer systems

Publisher: ACM Request Permissions

Full text available: Pdf (1.28 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 60, Downloads (Overall): 60, Citation Count: 0

The benefits of virtualized IT environments, such as compute clouds, have drawn interested enterprises to migrate their applications onto new platforms to gain the advantages of reduced hardware and energy costs, increased flexibility and deployment ...

Keywords: cloud computing, http, migration, testing, web application

12 Dynamic multi-process information flow tracking for web application security

Susanta Nanda, Lap-Chung Lam, Tzi-cker Chiueh

November 2007 **MC '07:** Proceedings of the 2007 ACM/IFIP/USENIX international conference on Middleware companion

Publisher: ACM

Full text available: Pdf (490.78 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 133, Downloads (Overall): 381, Citation Count: 0

Although there is a large body of research on detection and prevention of such memory corruption attacks as buffer overflow, integer overflow, and format string attacks, the web application security problem receives relatively less attention from the ...

Keywords: SQL injection, cross-site scripting, dynamic checking compiler, information flow tracking, taint analysis, web application security

13 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **WWW '01:** Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (611.20 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Downloads (Overall): 1459, Citation Count: 7

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

14 An architecture for information retrieval over semi-collaborating Peer-to-Peer networks

Iraklis A. Klampanos, Joemon M. Jose

March 2004 **SAC '04:** Proceedings of the 2004 ACM symposium on Applied computing

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Peer-to-Peer (P2P) networking is aimed at exploiting the potential of widely distributed information pools and its effortless access and retrieval irrespectively of underlying networking protocols, operating systems of devices. However, prohibiting limitations ...

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2 Communications of the ACM: Volume 51 Issue 10

October 2008 Communications of the ACM

Publisher: ACM

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Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 138, Downloads (12 Months): 138, Downloads (Overall): 3351, Citation Count: 0

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Additional Information: full citation

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4 Vlogging: A survey of videoblogging technology on the web

Wen Gao, Yonghong Tian, Tiejun Huang, Qiang Yang

June 2010 **Computing Surveys (CSUR)** , Volume 42 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (5.71 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 402, Downloads (12 Months): 402, Downloads (Overall): 402, Citation Count: 0

In recent years, blogging has become an exploding passion among Internet communities. By combining the grassroots blogging with the richness of expression available in video, videoblogs (vlogs for short) will be a powerful new media adjunct to our existing ...

Keywords: Survey, multimedia computing, vlog mining, vlogging, vlogs

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Full text available: Digital Edition Digital Edition , Pdf Pdf (7.61 MB)

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 200, Downloads (12 Months): 200, Downloads (Overall): 200, Citation Count: 0

6 Splitter: a proxy-based approach for post-migration testing of web applications

Xiaoning Ding, Hai Huang, Yaoping Ruan, Anees Shaikh, Brian Peterson, Xiaodong Zhang

April 2010 **EuroSys '10:** Proceedings of the 5th European conference on Computer systems

Publisher: ACM Request Permissions

Full text available: Pdf (1.28 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 60, Downloads (Overall): 60, Citation Count: 0

The benefits of virtualized IT environments, such as compute clouds, have drawn interested enterprises to migrate their applications onto new platforms to gain the advantages of reduced hardware and energy costs, increased flexibility and deployment ...

Keywords: cloud computing, http, migration, testing, web application

7 Software Deployment, Past, Present and Future

Alan Dearle

May 2007 **FOSE '07:** 2007 Future of Software Engineering

Publisher: IEEE Computer Society

Full text available: Pdf (390.24 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 251, Downloads (Overall): 1375, Citation Count: 5

This paper examines the dimensions influencing the past and present and speculates on the future of software deployment. Software deployment is a postproduction activity that is performed for or by the customer of a piece of software. Today's software ...

8 A theory of aspects as latent topics

Pierre F. Baldi, Cristina V. Lopes, Erik J. Linstead, Sushil K. Bajracharya

October 2008 **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications

Publisher: ACM Request Permissions

Full text available: Pdf (2.60 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 197, Downloads (Overall): 460, Citation Count: 3

After more than 10 years, Aspect-Oriented Programming (AOP) is still a controversial idea. While the concept of aspects appeals to everyone's intuitions, concrete AOP solutions often fail to convince researchers and practitioners alike. This discrepancy ...

Keywords: aspect-oriented programming, scattering, tangling, topic models

Also published in:

October 2008 **SIGPLAN Notices** Volume 43 Issue 10

9 Benchmarking XML processors for applications in grid web services

Michael R. Head, Madhusudhan Govindaraju, Robert van Engelen, Wei Zhang

November 2006 **SC '06:** Proceedings of the 2006 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Html (2.32 KB), Pdf (199.06 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 88, Downloads (Overall): 711, Citation Count: 5

Web services based specifications have emerged as the underlying architecture for core grid services and standards, such as WSRF. XML is inextricably inter-twined with Web services based specifications, and as a result the design and implementation of ...

Keywords: XML, benchmarking, multi-core

10 Dynamic multi-process information flow tracking for web application security

Susanta Nanda, Lap-Chung Lam, Tzi-cker Chiueh

November 2007 **MC '07:** Proceedings of the 2007 ACM/IFIP/USENIX international conference on Middleware companion

Publisher: ACM

Full text available: Pdf (490.78 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 133, Downloads (Overall): 381, Citation Count: 0

Although there is a large body of research on detection and prevention of such memory corruption attacks as buffer overflow, integer overflow, and format string attacks, the web application security problem receives relatively less attention from the ...

Keywords: SQL injection, cross-site scripting, dynamic checking compiler, information flow tracking, taint analysis, web application security

11 Web-based personalization and management of interactive video

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **WWW '01:** Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (611.20 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Downloads (Overall): 1459, Citation Count: 7

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

12 Evil twins: two models for TCB reduction in HPC clusters

Jacob Gorm Hansen, Eske Christiansen, Eric Jul

July 2007 **SIGOPS Operating Systems Review** , Volume 41 Issue 4

Publisher: ACM

Full text available: Pdf (1.13 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 43, Downloads (Overall): 219, Citation Count: 0

Traditional high performance computing systems require extensive management and suffer from security and configuration problems. This paper presents two generations of a cluster-management system that aims at making clusters as secure and self-managing ...

13 An architecture for information retrieval over semi-collaborating Peer-to-Peer networks

Iraklis A. Klampanos, Joemon M. Jose

March 2004 **SAC '04:** Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Request Permissions

Full text available: Pdf (365.46 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 32, Downloads (Overall): 795, Citation Count: 9

Peer-to-Peer (P2P) networking is aimed at exploiting the potential of widely distributed information pools and its effortless access and retrieval irrespectively of underlying networking protocols, operating systems of devices. However, prohibiting limitations ...

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1 Online reorganization of databases

Gary H. Sockut, Balakrishna R. Iyer

July 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (886.15 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 141, Downloads (12 Months): 1883, Downloads (Overall): 2014, Citation Count: 0

In practice, any database management system sometimes needs reorganization, that is, a change in some aspect of the logical and/or physical arrangement of a database. In traditional practice, many types of reorganization have required denying access ...

Keywords: Clustering, concurrent reorganization, indexes, log-structured file systems, maintenance, online reorganization, redefinition, reorganization, restructuring, schema evolution, very large databases

2 Communications of the ACM: Volume 53 Issue 2

February 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (19.69 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 382, Downloads (12 Months): 382, Downloads (Overall): 382, Citation Count: 0

3 Communications of the ACM: Volume 53 Issue 1

January 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.09 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 383, Downloads (12 Months): 383, Downloads (Overall): 383, Citation Count: 0

4 Communications of the ACM: Volume 51 Issue 5

May 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.28 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 152, Downloads (12 Months): 152, Downloads (Overall): 3064, Citation Count: 0

5 Communications of the ACM: Volume 51 Issue 11

November 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.26 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 204, Downloads (12 Months): 204, Downloads (Overall): 3132, Citation Count: 0

6 Communications of the ACM: Volume 51 Issue 9

September 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (8.68 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 229, Downloads (12 Months): 229, Downloads (Overall): 4209, Citation Count: 0

7 Communications of the ACM: Volume 52 Issue 11

November 2009 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.64 MB) Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 272, Downloads (12 Months): 272, Downloads (Overall): 272, Citation Count: 0

8 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM Request Permissions
Full text available: Pdf (20.64 MB) Additional Information: full citation, cited by
Bibliometrics: Downloads (6 Weeks): 106, Downloads (12 Months): 1441, Downloads (Overall): 8714, Citation Count: 4

9 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM Request Permissions
Full text available: Pdf (17.07 MB) Additional Information: full citation, abstract, cited by
Bibliometrics: Downloads (6 Weeks): 104, Downloads (12 Months): 803, Downloads (Overall): 5815, Citation Count: 3

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the ...

10 Security on FPGAs: State-of-the-art implementations and attacks

Thomas Wollinger, Jorge Guajardo, Christof Paar
August 2004 **Transactions on Embedded Computing Systems (TECS)** , Volume 3 Issue 3
Publisher: ACM Request Permissions
Full text available: Pdf (296.79 KB) Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 350, Downloads (Overall): 3743, Citation Count: 12

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms ...

Keywords: Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security

11 Technology retargeting for IC layout

John Lakos
June 1997 **DAC '97:** Proceedings of the 34th annual Design Automation Conference
Publisher: ACM Request Permissions
Full text available: Pdf (87.81 KB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloads (Overall): 176, Citation Count: 0

The ability to recognize polygon-based layout as a collection ofobjects representing circuit elements connected by path-based wires,enables existing designs implemented using an older fabricationprocess to be reimplanted quickly in a new process.The ...

12 A hamming distance based VLIW/EPIC code compression technique

Montserrat Ros, Peter Sutton
September 2004 **CASES '04:** Proceedings of the 2004 international conference on Compilers, architecture, and synthesis for embedded systems
Publisher: ACM
Full text available: Pdf (132.73 KB) Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 46, Downloads (Overall): 468, Citation Count: 12

This paper presents and reports on a VLIW code compression technique based on vector Hamming distances. It investigates the appropriate selection of dictionary vectors such that all program vectors are at most a specified maximum Hamming distance from ...

Keywords: VLIW, code compression, hamming distance

13 interactions: Volume 15 issue 5

September 2008 interactions
Publisher: ACM
Full text available: Digital Edition , Pdf (13.85 MB) Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 72, Downloads (Overall): 316, Citation Count: 0

14 Communications of the ACM: Volume 51 issue 4

April 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (4.24 MB) Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 114, Downloads (12 Months): 114, Downloads (Overall): 3643, Citation Count: 0

15 Perception of mechanically and optically simulated bumps and holes

Koert Van Mensvoort, Peter Vos, Dik J. Hermes, Robert Van Liere
February 2010 **Transactions on Applied Perception (TAP)** , Volume 7 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (8.05 MB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 102, Downloads (Overall): 102, Citation Count: 0

In this article, we investigate the perception of optically simulated haptic feedback. The perception of optically and mechanically simulated bumps and holes was tested experimentally. In an earlier article, we have described the active cursor technique, ...

Keywords: Optically simulated haptic feedback, experimentation, force feedback, multisensory perception, simulation

16 Cultural applications for mobile devices: issues and requirements for authoring tools and development platforms

Daphne Economou, Damianos Gavalas, Michael Kenteris, George E. Tsekouras
July 2008 **SIGMOBILE Mobile Computing and Communications Review** , Volume 12 Issue 3
Publisher: ACM
Full text available: Pdf (1.10 MB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 262, Downloads (Overall): 574, Citation Count: 0

This paper explores requirements that authoring tools and development platforms should satisfy for the development of cultural applications tailored for deployment on Personal Digital Assistants (PDAs) and mobile phones. To effectively determine such ...

17 Interactive sound rendering

Dinesh Manocha, Paul Calamia, Ming C. Lin, Dinesh Manocha, Lauri Savioja, Nicolas Tsingos

August 2009 **SIGGRAPH '09:** SIGGRAPH 2009 Courses

Publisher: ACM

Full text available: Pdf (62.61 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 82, Downloads (12 Months): 610, Downloads (Overall): 610, Citation Count: 0

An overview of algorithmic and software technologies related to interactive sound rendering. The course lectures cover three main topics: physically based techniques to synthesize sounds generated from colliding objects or liquid sounds, efficient computation ...

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